

CREATION DATE: 04/20/2012

REVISION DATE: 02/24/2015

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

a) Product Name: DPHP(Dipropylheptyl Phthalate)

b) Recommended use of the chemical and restrictions on use:

- Recommended use : Cables
- restrictions on use : no data available

c) Manufacturer/Supplier/Distributor Information

- Name: LG Chem, Ltd.
- Address
Ulsan Plant : 388, MANGYANG-RI, ONYANG-EUP, ULJU-GUN, ULSAN-CITY 689-901, KOREA
- Emergency phone number : 82-52-231-4062

SECTION 2 HAZARDS IDENTIFICATION

a) Hazard/Risk Classification : no data available.

b) Label elements including precautionary statements

- Symbol : no symbol
- Signal Word : no signal word
- Hazard/Risk Statement : May cause long lasting harmful effects to aquatic life
- Precautionary Statement : no data available

c) Other Hazard/Risk which are not included in the classification criteria

(e.g. dust explosion hazard):

- NFPA RATINGS (SCALE 0-4): HEALTH=0 FIRE=1 REACTIVITY=0

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name Other name CAS number or Other identification number Content (%)

Chemical Name	Trade name/Synonym	CAS number	Content(%)
Dipropylheptyl Phthalate.	Dipropylheptyl ester, Dipropylheptyl phthalic acid, 1,2-benzenedicarboxylic	53306-54-0	100

SECTION 4 FIRST AID MEASURES

a) Eye contact:

Wash eyes immediately with large amounts of water

If easy to do, remove contact lenses.

Get medical attention if symptoms persist.

b) Skin contact:

Remove contaminated clothing and shoes immediately.

Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes).

Get medical attention if symptoms persist.

c) Inhalation:

If symptomatic, move to fresh air immediately.

Get medical attention if symptoms persist.

d) Ingestion:

Seek medical advice.

e) Indication of immediate medical attention and notes for physician : no data available

SECTION 5 FIRE FIGHTING MEASURES

a) Suitable (and unsuitable) extinguishing media:

- Suitable extinguishing media : Dry chemical, carbon dioxide, water spray or regular foam
- Unsuitable extinguishing media : no data available
- Large fires : water, smog or regular foam

b) Specific hazards arising from the chemical

- Thermal decomposition products : can include toxicity and noxious gas
- Risk of fires and explosion : heat and spark can cause light fires

c) Special protective equipment and precautions for fire-fighters:

Full firefighting turn-out gear (bunker gear).

Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full facepiece.

SECTION 6 ACCIDENTAL RELEASE MEASURES

a) Personal precautions, protective equipment and emergency procedures:

Stop leak if you can do it without risk.

b) Environmental precautions and protective procedures: no data available

c) Methods and materials for containment and cleaning up:

- For Small spills: Absorb with sand or other non-combustible material.
Collect spilled material in appropriate container for disposal.
Keep unnecessary people away, isolate hazard area and deny entry.
- For Large spills : Flush spill area with water spray. Prevent run off from entering drains, sewers, or streams.

SECTION 7 HANDLING AND STORAGE

a) Precautions for safe handling: no data available.

No special precautionary health measure should be needed under anticipated conditions of use.

b) Conditions for safe storage (including any incompatibilities): Keep container closed.

SECTION 8 EXPOSURE CONTROLS & PERSONAL PROTECTION

a) Control parameters (e.g. occupational exposure limit values, biological limit values):

No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

b) Appropriate engineering controls:

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

c) Personal protective equipment

- Respiratory protection:

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Respiratory protection is ranked in order from minimum to maximum.

Consider warning properties before use.

Any chemical cartridge respirator with organic vapor cartridge(s).

Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).

Any air-purifying respirator with a full facepiece and an organic vapor canister.

- Eye protection: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

- Hands protection: Wear appropriate chemical resistant gloves.

- Body protection: Wear appropriate chemical resistant clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance (physical state, color etc): colorless to pale yellow, oily liquid

b) Odor: almost odorless

c) Odor threshold: no data available

d) pH: no data available

e) Melting point/freezing point: no data available

- f) Initial boiling point and boiling range: 484 ~ 489 F (251 ~ 254 °C)
- g) Flashing point : 435 F (232 °C)
- h) Evaporation rate: no data available
- i) Flammability Class(OSHA): no data available.
- j) Upper/lower flammability or explosive limits: no data available.
- k) Vapor pressure: no data available.
- l) Solubility: < 100 ppm @ 25 °C
- m) Vapor density: no data available
- n) Relative density: 0.957 ~ 0.966 @ 25 °C
- o) Partition coefficient: n-octanol/water: no data available
- p) Auto-ignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Viscosity: 122 cP @ 20 °C
- s) Formula mass: 446.67

SECTION 10 STABILITY AND REACTIVITY

- a) Chemical stability and possibility of hazardous reactions:
Stable under normal temperatures and pressures.
Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
- b) Conditions to avoid (e.g. static discharge, shock or vibration, etc):
Avoid heat, flames, sparks and other sources of ignition.
Avoid contact with incompatible materials.
- c) Incompatible materials: oxidizing materials
- d) Hazardous decomposition products: Thermal decomposition products - oxides of carbon

SECTION 11 TOXICOLOGICAL INFORMATION

- a) Information on the likely routes of exposure: no data available
- b) Health hazards information
 - Acute toxic: no data available
 - Skin corrosive/irritant: no data available
 - Serious eye damage/eye irritation: no data available
 - Respiratory sensitization: no data available
 - Skin sensitization: no data available
 - Carcinogenicity: no data available
 - Germ Cell Mutagenicity : no data available
 - Reproductive toxicity: no data available
 - Specific target organ toxicity (single exposure): no data available
 - Specific target organ toxicity (repeated exposure): no data available

- Aspiration hazard: no data available

SECTION 12 ECOLOGICAL INFORMATION

- a) Aquatic and terrestrial ecotoxicity: no data available
- b) Persistence and degradability: no data available.
- c) Bioaccumulative potential: no data available
- d) Mobility in soil: no data available.
- e) Other adverse effects: no data available

SECTION 13 DISPOSAL CONSIDERATIONS

- a) Disposal method: Incinerate :**
Discharge, treatment, or disposal may be subject to national, state or local laws.
- b) Disposal precaution (including the disposal method of contaminated container and packaging):**
Discharge, treatment, or disposal may be subject to national, state or local laws.

SECTION 14 TRANSPORT INFORMATION

- a) UN number: no classification
b) UN proper shipping name: N/A
c) Transport hazard class: N/A
d) Packing group (if applicable): N/A
e) Marine pollution (yes/no): N/A
f) Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises: N/A

SECTION 15 REGULATORY INFORMATION

- a) Industrial Safety and Health Act: no data available
- b) Toxic Chemical Control Act
- U.S. REGULATIONS
- TSCA inventory status: Listed.
- TSCA 12b export notification: Not listed.
- c) Dangerous Material Safety Control Act: no data available
- d) Wastes Management Act: no data available
- e) Other requirements in domestic and other countries: no data available

SECTION 16 OTHER INFORMATION

a) Information source and references:

- Korea Occupational Safety & Health Agency(www.kosha.net)

b) Issuing date: 04/20/2012

c) Revision number and date: 3st Revision 02/24/2015

d) others: -